

CLAIMS

1. A cutting head (10) for a brush-cutter, edge-trimmer or similar, comprising a passageway (11) for a cutting wire (40) and a movable element (20) for locking the wire, characterized in that the locking element comprises a slide which is capable of moving linearly in a guide (15) that intersects the wire passageway and which is subjected to a force, the slide and the wire passageway in the vicinity of the guide having working surfaces (11, 21) capable of locking the wire by shearing effect.
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- 15 2. The cutting head as claimed in claim 1, characterized in that said force is a centrifugal force generated by the rotation of the head.
- 20 3. The cutting head as claimed in claim 1 or 2, characterized in that the slide (20) is acted upon by a spring (30).
- 25 4. The cutting head as claimed in claims 2 and 3 taken in combination, characterized in that the spring (30) acts in the same direction as the centrifugal force.
- 30 5. The cutting head as claimed in claim 4, characterized in that it comprises two passageways (11a, 11b) for two sections of cutting wire (40a, 40b).
- 35 6. The cutting head as claimed in one of claims 1 to 5, characterized in that the wire passageway or each wire passageway (40) opens onto the outside of the head (10) at its two ends, so as to receive a section of cutting wire (40) whose two terminal lengths operate.

7. The cutting head as claimed in claim 5 or claim 6, taken in the dependence on claim 5, characterized in that it comprises a common slide (20) capable of locking the two sections of cutting wire (40a, 40b).
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8. The cutting head as claimed in claim 7, characterized in that it comprises two slides (20a, 20b) capable of locking respectively the two sections of wire (40a, 40b).
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9. The cutting head as claimed in claim 8, characterized in that the two slides (20a, 20b) are capable of moving in opposite directions along a diameter of the head.
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10. The cutting head as claimed in one of claims 5 to 9, characterized in that the two wire passageways (11a, 11b) are parallel with one another.
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11. The cutting head as claimed in claim 10, characterized in that the two ends of the two wire passageways (11a, 11b) define four wire outlets (111-114) mutually spaced by approximately 90° in the peripheral direction of the head.
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12. The cutting head as claimed in one of claims 1 to 11, characterized in that the cross section of the wire passageway or of each wire passageway (11; 11a, 11b) is chosen from the circular, oblong or polygonal shapes.
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13. The cutting head as claimed in claim 12, characterized in that the cross section of the wire passageway or of each wire passageway has a flattened diamond shape.
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14. The cutting head as claimed in one of claims 1 to 13, characterized in that the working surface of the slide (20) belongs to a through wire passageway (21) formed in the slide.

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15. The cutting head as claimed in claim 14, characterized in that the through wire passageway (21) formed in the slide (20) has the same cross section as the corresponding wire passageway (11) formed in the cutting head (10).

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16. The cutting head as claimed in claim 14, characterized in that the through wire passageway (21) formed in the slide (20) has a cross section different from that of the corresponding wire passageway (11) formed in the cutting head.

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17. The cutting head as claimed in one of claims 1 to 13, characterized in that the working surface (241) of the slide is formed on a profiled working region (24).

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18. The cutting head as claimed in claim 17, characterized in that the working surface (241) of the slide is oriented obliquely relative to the direction of movement of the slide.

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19. The cutting head as claimed in one of claims 1 to 18, characterized in that the slide or each slide (20; 20a, 20b) comprises an actuation portion (23; 231a, 232a) that can be accessed from the outside of the head and that makes it possible to position the said slide so that it does not form an obstacle to the engagement of a section of cutting wire in the corresponding wire passageway (11) formed in the head.

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20. The cutting head as claimed in claim 19, characterized in that said actuation portion

(231a, 232a) is, in the radial direction, set back relative to the periphery of the cutting head.

21. A cutting device such as a brush-cutter, edge-trimmer or similar, characterized in that it comprises a motor capable of rotating a cutting head (100) as claimed in one of claims 1 to 20.
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